In the Claims:

Please cancel Claim 10 without prejudice or disclaimer.

- 1. (Currently Amended) An isolated nucleic acid having at least 80% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain amino acids 109-353 of the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (d)—a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
 - (e d) the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101);
- (f e) the full-length coding sequence of the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101); or
- (g f) the full-length coding sequence of the cDNA deposited under ATCC accession number 203652;

wherein said isolated nucleic acid has acyltransferase activity.

- 2. (Currently Amended) The isolated nucleic acid of Claim 1 having at least 85% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain amino acids 109-353 of the polypeptide shown in Figure 102 (SEQ ID NO:102);

- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
 - (e d) the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101);
- (f e) the full-length coding sequence of the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101); or
- (g f) the full-length coding sequence of the cDNA deposited under ATCC accession number 203652.
- 3. (Currently Amended) The isolated nucleic acid of Claim 1 having at least 90% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain amino acids 109-353 of the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (d)—a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
 - (e d) the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101);
- (f e) the full-length coding sequence of the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101); or
- (g f) the full-length coding sequence of the cDNA deposited under ATCC accession number 203652.
- 4. (Currently Amended) The isolated nucleic acid of Claim 1 having at least 95% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102);

- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain amino acids 109-353 of the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
 - (e d) the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101);
- (f e) the full-length coding sequence of the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101); or
- (g f) the full-length coding sequence of the cDNA deposited under ATCC accession number 203652.
- 5. (Currently Amended) The isolated nucleic acid of Claim 1 having at least 99% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain amino acids 109-353 of the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
 - (e d) the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101);
- (f e) the full-length coding sequence of the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101); or
- (g \underline{f}) the full-length coding sequence of the cDNA deposited under ATCC accession number 203652.
 - 6.(Currently Amended) An isolated nucleic acid comprising:

- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain amino acids 109-353 of the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
 - (e d) the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101);
- (f e) the full-length coding sequence of the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101); or
- (g <u>f</u>) the full-length coding sequence of the cDNA deposited under ATCC accession number 203652;

wherein said isolated nucleic acid has acyltransferase activity.

- 7. (Original) The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102).
- 8. (Original) The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide.
- 9.(Currently Amended) The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain amino acids 109-353 of the polypeptide shown in Figure 102 (SEQ ID NO:102).
- 10. (Canceled) The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide.

- 11. (Original) The isolated nucleic acid of Claim 6 comprising the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101).
- 12.(Original) The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101).
- 13. (Original) The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the cDNA deposited under ATCC accession number 203652.
 - 14.(Currently Amended) An isolated nucleic acid that hybridizes to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (b) a nucleic acid sequence encoding the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
- (c) a nucleic acid sequence encoding the extracellular domain amino acids 109-353 of the polypeptide shown in Figure 102 (SEQ ID NO:102);
- (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 102 (SEQ ID NO:102), lacking its associated signal peptide;
 - (e d) the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101);
- (f e) the full-length coding sequence of the nucleic acid sequence shown in Figure 101 (SEQ ID NO:101); or
- (g f) the full-length coding sequence of the cDNA deposited under ATCC accession number 203652;

wherein said isolated nucleic acid has acyltransferase activity.

15.(Currently Amended) The isolated nucleic acid of Claim 14, wherein said hybridization occurs under the stringent conditions of 50% formamide, 5 x SSC (0.75 M NaCl, 0.075 M sodium citrate), 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5 x

Denhardt's solution, sonicated salmon sperm DNA (50 μg/ml), 0.1% SDS, and 10% dextran sulfate at 42°C, with washes at 42°C in 0.2 x SSC (sodium chloride/sodium citrate) and 50% formamide at 55°C, followed by a high-stringency wash consisting of 0.1 x SSC containing EDTA at 55°C.

- 16. (Original) The isolated nucleic acid of Claim 14 which is at least 10 nucleotides in length.
 - 17. (Original) A vector comprising the nucleic acid of Claim 1.
- 18. (Original) The vector of Claim 17, wherein said nucleic acid is operably linked to control sequences recognized by a host cell transformed with the vector.
 - 19. (Original) A host cell comprising the vector of Claim 17.
- 20. (Original) The host cell of Claim 19, wherein said cell is a CHO cell, an *E. coli* or a yeast cell.